

**EPA**United States Environmental Protection Agency
Water Compliance Inspection Report

Section A: National Data System Coding (i.e., PCS)

Transaction Code	NPDES	yr/mo/day	Inspection Type	Inspector	Fac Type
1[N] 2[5] 3[1] 4[L] 5[A] 6[0] 7[0] 8[0] 9[7] 10[5] 11 12[1] 13[2] 14[1] 15[2] 16[2] 17[0]			18[C]	19[S]	20[3]
Remarks					
[C][A][F][O][C][O][M][P][L][I][A][N][C][E]					
21					
Inspection Work Days	Facility Self-Monitoring Evaluation Rating	BI	QA	Reserved	
67[] [] [] 69	70[3]	71[] [] []	72[] [] []	73[] [] []	74 75[] [] [] [] [] [] 80

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) Varel Dairy, Inc. 7300 Twin Levee Road Bartelso, IL 62218	Entry Time/Date 10:45 a.m. 12/20/12	Permit Effective Date 10/20/09
	Exit Time/Date 1:00 p.m. 12/20/12	Permit Expiration Date 09/30/14
Name(s) of On-Site Representative(s)/Title(s)/ Phone and Fax Number(s) Eric Varel, Owner	Other Facility Data	
Name, Address of Responsible Official/Title/Phone and Fax Number Eric Varel Exemption 6 and Exemption 7(C)	Phone - [Redacted] Exemption 6 and Exemption 7(C) Contacted <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

<input checked="" type="checkbox"/> Permit	<input type="checkbox"/> Flow Measurement	<input checked="" type="checkbox"/> Operation & Maintenance	<input checked="" type="checkbox"/> Storm Water
<input checked="" type="checkbox"/> Records/Reports	<input type="checkbox"/> Self-Monitoring Program	<input type="checkbox"/> Sludge Handling/Disposal	<input type="checkbox"/> Combined Sewer Overflow
<input checked="" type="checkbox"/> Facility Site Review	<input type="checkbox"/> Compliance Schedules	<input type="checkbox"/> Pretreatment	<input type="checkbox"/> Sanitary Sewer Overflow
<input type="checkbox"/> Effluent/Receiving Waters	<input type="checkbox"/> Laboratory	<input type="checkbox"/> Pollution Prevention	<input type="checkbox"/> MS4

Section D: Summary of Findings/Comments

(Attach additional sheets of narrative and checklists, including Single Event Violation Codes, as necessary)

SEV Codes

[]	[]	[]	[]	[]
[]	[]	[]	[]	[]
[]	[]	[]	[]	[]

SEV Description

Name(s) and Signature(s) of Inspector(s) Bruce D. Rodely, P.E.	Agency/Office/Phone and Fax Numbers IEPA / DWPC / FOS-Marion 618/993-7200 FAX 618/997-1281	Date 01-25-2013
Signature of Management or A Reviewer W. Bud Bridgewater, P.E.	Agency/Office/Phone and Fax Numbers IEPA / DWPC / FOS-Acting Manager 217/782-1654	Date 29 Jan 2013

CC:



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Livestock Facility Inspection Checklist

GENERAL INFORMATION									
TYPE OF INSPECTION: <input checked="" type="checkbox"/> CAFO <input type="checkbox"/> COMPLAINT <input type="checkbox"/> RECONNAISSANCE <input type="checkbox"/> ERU FOLLOW UP <input type="checkbox"/> OPERATOR REQUEST <input type="checkbox"/> OTHER									
FACILITY NAME (LLC, Inc., Corp, Partnership, sole proprietorship, etc.) Varel Dairy, Inc.						INSPECTION DATE 12-20-12		ARRIVAL TIME 10:45 AM	
ADDRESS 7300 Twin Levee Road					INSPECTOR(s) Bruce Rodely		DEPARTURE TIME 1:00 PM		
CITY Bartelso			STATE IL		ZIP CODE 62218		ACCOMPANIED BY (if applicable) Brian Rodely		
COUNTY Clinton		SECTION 16	TOWNSHIP 1N	RANGE 3W	POLITICAL TOWNSHIP Santa Fe		TEMPERATURE 30F	PRECIPITATION TYPE 2" last 24 Hr.	
Facility Owner(s): <small>Exemption 6 and Exemption 7(C)</small>		NAME Eric Varel				CONTACTED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		PHONE <small>Exemption 6 and Exemption 7(C)</small>	MOBILE
		ADDRESS				CITY		STATE	ZIP CODE
		Exemption 6 and Exemption 7(C)							
		NAME Jason Varel				CONTACTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		PHONE	MOBILE
		ADDRESS				CITY		STATE	ZIP CODE
		Exemption 6 and Exemption 7(C)							
Facility Operator(s): <small>Exemption 6 and Exemption 7(C)</small>		NAME				CONTACTED <input type="checkbox"/> YES <input type="checkbox"/> NO		PHONE	MOBILE
		ADDRESS				CITY		STATE	ZIP CODE
		NAME				CONTACTED <input type="checkbox"/> YES <input type="checkbox"/> NO		PHONE	MOBILE
		ADDRESS				CITY		STATE	ZIP CODE
NPDES PERMIT INFORMATION (If no NPDES Permit, skip this section)									
1. What type of NPDES permit has been issued? <input type="checkbox"/> Individual NPDES Permit <input checked="" type="checkbox"/> General NPDES Permit								NPDES # ILA010075	
2. What date was the NPDES permit issued? October 20, 2009									
3. What date does the NPDES permit expire? September 30, 2014									
4. Is a copy of the NPDES permit onsite?								<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
5. Permitted number of animals (no. & specie)? 1,344 Dairy and 565 heifers									
6. Does the NPDES Permit contain a compliance schedule?								<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
7. Have there been any changes made to the production area since the permit was issued?								<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
If "YES", provide a detailed description of those changes. None									

LAND APPLICATION/NUTRIENT MANAGEMENT		
1. How many TOTAL acres are available for land application? <u>979</u> acres		
2. How many acres are READILY available for land application at the time of inspection? <u>750</u> acres		
3. Estimated annual quantities of liquid waste <u>5861292</u> gallons		
4. Estimated annual quantities of solid waste <u>45</u> tons		
5. Does the facility have a contractor perform land application? If "YES", Name of Contractor: _____	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
6. What type of land application equipment is available to the facility? <input checked="" type="checkbox"/> Umbilical Injection <input type="checkbox"/> Honeywagon Injection <input type="checkbox"/> Honeywagon Surface <input type="checkbox"/> Irrigation <input type="checkbox"/> Rotational Gun <input type="checkbox"/> Manure Spreader <input type="checkbox"/> Vegetative Filter <input type="checkbox"/> Other _____		
7. Does the facility calibrate the land application equipment? If "YES", What method is used? Manufacturer Recommendation	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
8. Does the facility land apply within the 150 foot setback from any water well? If "YES", Explain	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
9. Does the facility land apply within the 200 foot setback from any surface water? If "YES", Explain	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
10. Does the facility land apply near any residences? If "YES", Explain	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
11. Is livestock waste transferred off-site to another party? If "YES", Are records of manure transfers kept? If "YES", Ask to see records	<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> NO
12. Does the facility have a current NMP or CNMP? If "YES", Does the facility maintain a copy of the nutrient management plan (NMP) onsite?	<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> NO
13. Does the NMP reflect the current operational characteristics (number of animals, cropping, etc.)?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
14. Are the number of acres owned/leased consistent with those in the NMP?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
15. Is manure and wastewater being applied in accordance with setback/buffer requirements of the NMP?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
16. Are all of the records identified in the NMP being maintained and kept current?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
17. Are records being maintained at the required frequency?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
18. Are records being maintained onsite for the period required by NMP and/or NPDES permit?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
19. Is the NMP adequately addressing the storage, handling and application of manure and wastewater to prevent discharges to waters of the U.S.?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO

LIVESTOCK FACILITY DESCRIPTION

Type of Animals	Number of Animals (currently)	Animal Capacity	Type of Confinement	Number of Structures
DAIRY MILKING		960	TOTAL CONFINEMENT BDG	6
DAIRY DRY		585	TOTAL CONFINEMENT BDG	7

Does the facility have an Illinois Certified Livestock Manager (300 or greater animal units)?	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
If greater than 1000 animal units but less than 5000 animal units, does the facility have a waste management plan?	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
If greater than 5000 animal units, has the facility submitted a waste management plan to IDOA for review?	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> YES	<input type="checkbox"/> NO
Does the facility have any other locations under common ownership, or where equipment and/or manure is shared, or where the other site shares land application sites? If so, put names and addresses below. None	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		

LIVESTOCK WASTE STORAGE

1.	Does the facility have any existing livestock waste containment system? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If NO, then proceed to question 10.
2.	General description of the waste containment system (include solid and liquid manure handling, mortality, and feed storage areas). Six flush barns reporting to holding ponds and seven manure dry pack barns.

Type of Storage	Total Storage Capacity (Specify Units)
<input checked="" type="checkbox"/> Anaerobic Lagoon	7175602 gal
<input type="checkbox"/> Covered Lagoon	
<input checked="" type="checkbox"/> Holding Pond	9685079 gal
<input checked="" type="checkbox"/> Above Ground Storage Tank ("Slurrystore")	178410 gal
<input type="checkbox"/> Below Ground Storage Tank	
<input type="checkbox"/> Settling Basin	
<input type="checkbox"/> Roofed Storage Shed	
<input type="checkbox"/> Concrete Pad	
<input type="checkbox"/> Impervious Soil Pad	
<input type="checkbox"/> Underfloor Pits	
<input type="checkbox"/> Anaerobic Digester	
<input type="checkbox"/> Manure Stacks	
<input type="checkbox"/> Vegetative Filter	
<input checked="" type="checkbox"/> Other Evap Pond	3431148 gal - Proposed but not constructed
<input type="checkbox"/> None	

3. Do the storage structures have depth markers or staff gauges? ☒ YES ☐ NO

4. Are levels of manure in the storage structures recorded and records kept? ☒ YES ☐ NO

5. Do the storage structures have adequate freeboard? ☒ YES ☐ NO

6. Estimated final stage storage structure freeboard 48 in. of total depth 180 in.

7. Do facility personnel perform routine visual inspections of the storage structures? ☒ YES ☐ NO

8. Are the routine visual inspections documented? ☒ YES ☐ NO

9. Does the system have an outfall or discharge point? ☐ YES ☒ NO

If "YES", please provide a description (overflow pipe, spill way, etc. Include a description the area receiving the discharge).

None

10. Are there any portions of the production area where runoff is not controlled? ☐ YES ☒ NO

If "YES", provide a detailed description of the area(s) of concern:

None

MORTALITIES MANAGEMENT

1. How are mortalities managed? (Composted, buried, burned, rendering service, other)

Rendered by Darling.

2. Are mortalities documented and are records kept? ☒ YES ☐ NO

FACILITY WATER SOURCES

1. What type of method is used to provide drinking water for the animals?
☐ Overflow waters ☐ Tip Tanks ☐ Nipple waters ☒ Water Bowls ☐ Other _____
2. How is the water for animals obtained?
☒ Community PWS ☒ On-Site Well ☐ On-Site Impoundment ☐ Other _____
3. Is a mist cooling system used? ☒ YES ☐ NO
How is mist water contained?
Reports to holding ponds.

DAIRY OPERATION (If No Dairy, skip this section)

1. How many times per day are cows milked? 3
2. Describe how the dairy's non-contact cooling water is contained (Example: it is reused for drinking water for the animals).
Reports to holding ponds.
3. Describe how the milking parlor is cleaned (hose or flush) and where the process wastewater goes and how it is contained.
Hosed to holding pond.
4. Describe how the tank(s) are washed and where the process wastewater goes and how it is contained.
Automatic to holding pond.
5. Describe where process wastewater from the plate cooler goes and how it is contained.
Holding pond.

BEDDING (If No Bedding, skip this section)

1. Describe what type of bedding is used for the animals.
Sand.
2. Describe how bedding is collected and how often.
Add once per week using sand settling lane.
3. What is done with the used bedding? ☒ Reused ☐ Land Applied

MANURE COLLECTION

1. How is manure collected?
- ☐ Under Floor Pit
☒ Scraped: ☐ Automatic ☒ Manual
☒ Flush
☐ Solids Separator
☐ Other: _____
☐ None
2. If manure collection system uses either clean or reused water to flush, describe where this water goes and how it is contained.
Holding ponds.

FEED STORAGE CONTAINMENT

1. Describe how feed (silage, hay, etc) is contained.
- ☐ Bulk Bins
☐ Silage Pit
☒ Ag Bags
☐ Hay: ☐ Barn ☐ Outdoor
☒ Other: **Covered Pile**
2. Describe how feed (silage, hay, etc) runoff is contained.
- ☒ Not Applicable – Feed totally enclosed
☒ Other: **Ag Bags and covered pile area cleaned up as used and no leachate**
☐ None

RECEIVING SURFACE WATERS

1. Provide a description of the flow path from the facility to the nearest named surface water.

Overland flow and unnamed tributaries south 2 miles SE to Santa Fe Ditch.

2. What is the name of the receiving stream?

Santa Fe Ditch.

3. Status of the named surface water: ☒ Intermittent ☐ Perennial

4. Are any unnatural bottom deposits observed in the receiving stream: ☐ YES ☒ NO

If "YES", provide a description of the deposits: **None**

DISCHARGES

1. Have there been any documented discharges of livestock waste to surface water <i>in the past year?</i> If "NO" proceed to question 2.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
a. If "YES", specify the date(s). _____		
b. What was the reason for the discharge?		
c. Was the discharge the result of a 25 year-24 hour rainfall event?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
d. What was the precipitation amount? <i>(if applicable)</i>		
e. Was IEMA notified of the discharge?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
f. Has the facility taken corrective action to remedy the situation which caused the discharge(s)?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
If "YES", describe actions taken: None		
2. Is the facility currently discharging livestock waste from the production area? If "NO" proceed to next section.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
a. Was the discharge the result of a 25 year-24 hour rainfall event?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
b. What was the precipitation amount? <i>(if applicable)</i>		
c. What is the reason for the discharge?		
d. Were water quality samples taken?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
e. If "YES", how many? _____		
f. What parameter(s) tested? <input type="checkbox"/> pH <input type="checkbox"/> Ammonia <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Phosphorus <input type="checkbox"/> BOD ₅ <input type="checkbox"/> Total Susp Solids <input type="checkbox"/> Fecal <input type="checkbox"/> Diss O ₂ <input type="checkbox"/> Other _____		

BIOSECURITY – Inspection Activities

1. Were biosecurity measures discussed with the facility prior to inspection?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
2. Has there been 24-hours downtime between inspections for all IEPA personnel present?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
3. Was the order of inspection conducted from high risk to low risk?	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO
4. Did all personnel stay outside livestock management and livestock waste handling facilities as defined in 35 IAC 501.285 and 35 IAC 501.300? If "YES" skip to question 7.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO

BIOSECURITY – Personal Protection Equipment

5. Was sanitary footwear donned prior to entering the livestock management/waste handling facility(s)?	<input checked="" type="checkbox"/> N/A Did not Enter	<input type="checkbox"/> YES	<input type="checkbox"/> NO
6. Were disposable coveralls donned prior to entering the livestock management/waste handling facility(s)?	<input checked="" type="checkbox"/> N/A Did not Enter	<input type="checkbox"/> YES	<input type="checkbox"/> NO
7. Was sanitary footwear used during the inspection?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> YES	<input type="checkbox"/> NO
8. Was disposable sanitary outerwear disposed at the facility?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO

BIOSECURITY – Vehicle

9. Was the vehicle parking location discussed with the facility prior to inspection?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
10. Was the vehicle washed since the inspection prior to current? If "YES" skip to question 12.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
11. Was the vehicle parked >300-feet from the livestock management/waste handling facility? Explain where vehicle was parked:	<input type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO
12. Was IEPA vehicle used on site?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
13. Was facility vehicle used on site?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO

BIOSECURITY – Inspection Equipment

14. Was all equipment wiped down with anti-bacterial wipes?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
15. Was sample cooler kept inside vehicle during inspection? If "YES" skip question 16.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
16. Was sample cooler wiped down with antibacterial wipes before placing back into vehicle?	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> YES <input type="checkbox"/> NO

OTHER COMMENTS/NOTES

Latitude N 38.525 Longitude W -89.464.

Waste handling system, milking parlor, barns, and feed storage areas were observed. No evidence of runoff or discharge was noted at the facility which received 2-inches of precipitation the night before the inspection.

All feed was covered and ag bag spillage was cleaned up as used. Covered pile was undisturbed at the time of inspection and there was no evidence of leachate runoff. Covered pile will also have spillage cleaned up as used.

The east and west feedlots have been abandoned. The east concrete pad has been abandoned.

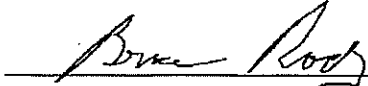
The calves were confined inside the calf hutches and are not able to go outside the hutch. Therefore, precipitation would not be incident to the production area. There was no visible evidence of runoff from the calf hutches.

A fourth holding pond has been added to the facility to accommodate waste handling from the newly constructed barns.

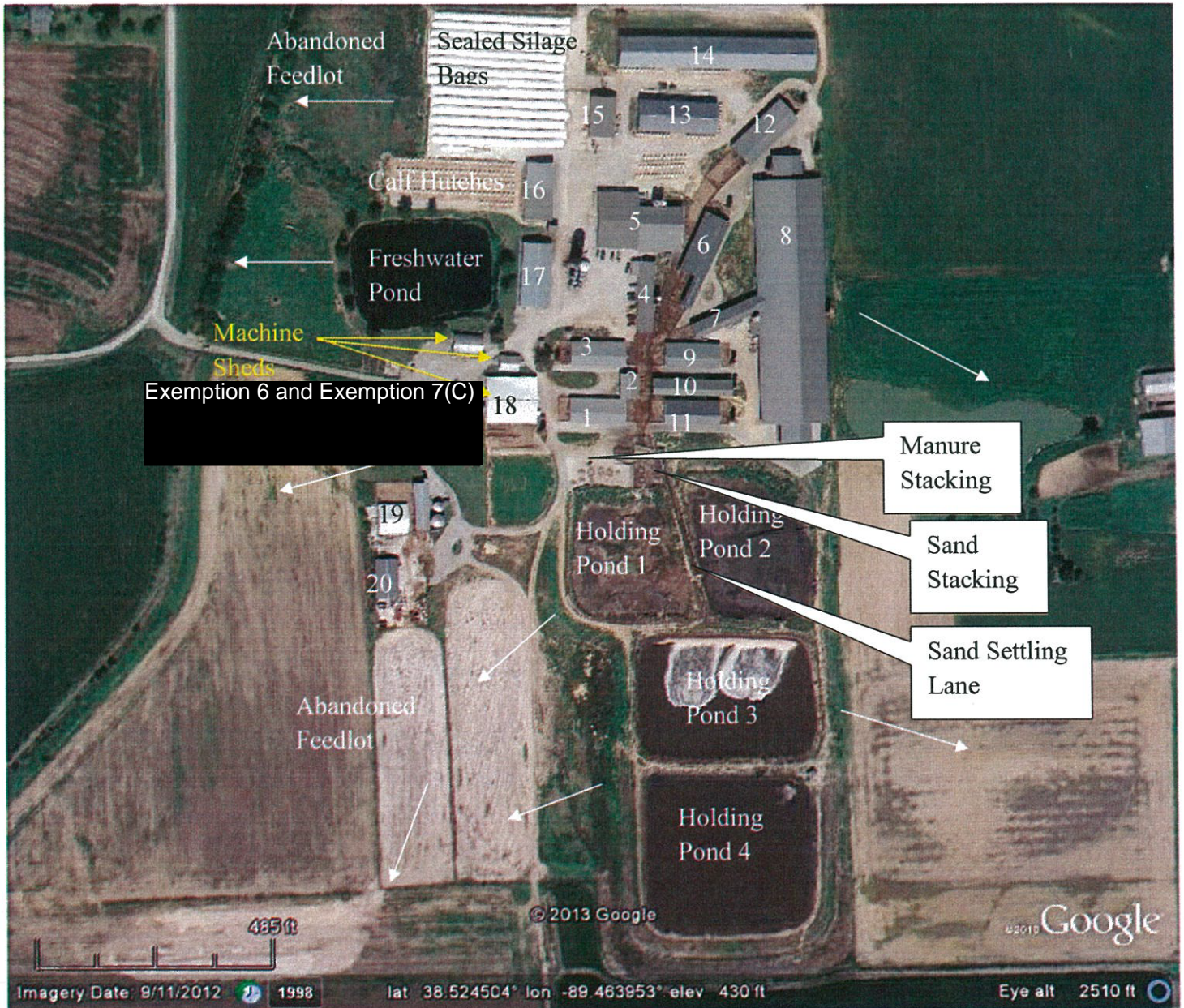
Facility has 946 Milk Cows, 156 Dry Cows, and 300 Heifers on inventory at the time of inspection.

Facility appeared well-maintained.

Check all attachments: ☐ Narrative ☒ Photos ☒ Site Plan ☐ Sample Results

INSPECTOR'S SIGNATURE

REPORT DATE

January 25, 2013



- | | |
|-----------------------|-------------------------------------|
| 1. Barn 40 cows | 12. Barn 120 Cows-dry |
| 2. Hospital Barn | 13. Hay Barn |
| 3. Barn 90 heifers | 14. Hay Barn |
| 4. Old Milking Parlor | 15. Machine Shop |
| 5. New Milking Parlor | 16. Commodity Shed |
| 6. Barn 120 Cows | 17. Hay Barn |
| 7. Walkway | 18. Machine Shed/Barn – 100 heifers |
| 8. Barn 600 Cows | 19. Barn 150 heifers |
| 9. Barn 90 Cows | 20. Barn 150 heifers |
| 10. Barn 40 Cows | |
| 11. Barn 40 Cows | |
- All populations are approximate.
Holding Pond 4 was constructed 2-years ago.

AGRICULTURAL INSPECTION DIGITAL PHOTOGRAPH PHOTOCOPIES

Photo # Varel~20121220-003
Date: December 20, 2012
Time: 11:38 a.m.
Taken By: Bruce Rodely DWPC/FOS
Facility: Varel Dairy
Location: Manure Stacking Area
Notes: Looking S at the manure
stacking area.



Photo # Varel~20121220-004
Date: December 20, 2012
Time: 11:40 a.m.
Taken By: Bruce Rodely DWPC/FOS
Facility: Varel Dairy
Location: Sand Stacking Area
Notes: Looking S at the sand
stacking area.



AGRICULTURAL INSPECTION DIGITAL PHOTOGRAPH PHOTOCOPIES

Photo # Varel~20121220-005
Date: December 20, 2012
Time: 11:40 a.m.
Taken By: Bruce Rodely DWPC/FOS
Facility: Varel Dairy
Location: Barn feed alley
Notes: Looking E at the feeding
alley for the barn. Note the
feed is covered by the roof
and gutter.



Photo # NO PHOTO
Date:
Time:
Taken By: Bruce Rodely DWPC/FOS
Facility:
Location:
Notes:

AGRICULTURAL INSPECTION DIGITAL PHOTOGRAPH PHOTOCOPIES

Photo # Varel-20121220-001-002
Date: December 20, 2012
Time: 11:38 a.m.
Taken By: Bruce Rodely DWPC/FOS
Facility: Varel Dairy
Location: Sand Stacking Area
Notes: Looking S at the sand
stacking area, the sand
settling lane to the left, and
manure stacking area to the
right. Holding Ponds 1 and
2 are just behind the sand
stacks right and left
respectively. Holding
Ponds 3 and 4 are in the
background.



